

Please amend the above-identified Application as follows:

I. AMENDMENTS

Amendments to the Claims:

The following listing of claims replaces all prior versions and listings of claims in the application:

1 – 72. (Canceled)

73. (Currently Amended) A biological preparation for use in vivo, comprising[[,]] cells in suspension and a purified mammalian heparanase enzyme being externally adhered to said cells, thereby increasing the natural amount of heparanase externally adhered to said cells, so as to enhance extravasation, implantation, transplantation, invasion and/or migration of said cells in vivo, wherein said purified mammalian heparanase enzyme is added to said preparation.

74. (Previously Presented) The biological preparation of claim 73, wherein said cells are selected from the group consisting of hematopoietic cells, stromal cells, keratinocytes, astrocytes, fibroblasts and genetically modified cells.

75-78. (Canceled)

79. (Currently Amended) A biological preparation for use in vivo, comprising[[,]] cells in suspension and a purified mammalian heparanase enzyme being externally adhered to said cells, thereby increasing the natural amount of heparanase externally adhered to said cells, so as to enhance extravasation, implantation, transplantation, invasion and/or migration of said cells in vivo, wherein said purified mammalian heparanase enzyme is added to said preparation, wherein said cells are selected from the group consisting of hematopoietic cells, stromal cells, keratinocytes, astrocytes, fibroblasts and genetically modified cells.

80. (Previously Presented) A biological preparation for use in vivo comprising, cells in suspension and a purified mammalian heparanase enzyme being externally adhered to said cells,

thereby increasing the natural amount of heparanase externally adhered to said cells, so as to enhance extravasation, implantation, transplantation, invasion and/or migration of said cells in vivo, wherein said cells are selected from the group consisting of hematopoietic cells, stromal cells, keratinocytes, astrocytes and fibroblasts.

81. (New) The biological preparation of claim 73, wherein said enzyme is added in its inactive pro-enzyme form.

82. (New) The biological preparation of claim 73, wherein said cells are selected from the group consisting of blastocysts and neuroblasts.

83. (New) The biological preparation of claim 73, wherein said cells are selected from the group consisting of hematopoietic cells, stromal cells, keratinocytes, astrocytes and fibroblasts.

84. (New) The biological preparation of claim 73, wherein said cells are selected from the group consisting of hematopoietic cells, stromal cells, keratinocytes and astrocytes.

85. (New) A biological preparation for use in vivo, comprising a tissue in suspension and a purified mammalian heparanase enzyme being externally adhered to said tissue or portion thereof, thereby increasing the natural amount of heparanase externally adhered to said tissue or portion thereof, so as to enhance extravasation, implantation, transplantation, invasion and/or migration of said tissue or portion thereof in vivo, wherein said purified mammalian heparanase enzyme is added to said preparation.

86. (New) The biological preparation of claim 85, wherein said enzyme is added in its inactive pro-enzyme form.

87. (New) The biological preparation of claim 85, wherein said tissue or portion thereof is selected from the group consisting of an embryo, skin flap or bone scrap.

88. (New) A biological preparation for use in vivo, comprising cells in suspension and a purified mammalian heparanase enzyme being externally adhered to said cells, wherein said purified mammalian heparanase enzyme is added to said preparation.

89. (New) The biological preparation of claim 88, wherein said cells are selected from the group consisting of hematopoietic cells, stromal cells, keratinocytes, astrocytes, fibroblasts and genetically modified cells.